

Certificate/Serial/Job No:

AC76

 Quality Department: *Jose Garcia*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
21	3	600	/ 103027	DSI 165XU	SWING				11/13/2013

Pressure Test: API598	☒ Satisfactory	Shell Pressure :	2225 psi 15340.8 kPa	BackSeat :	psi kPa	Seat Pressure	1650 psi 11376.35 kPa	Seat Air Pressure	psi kPa
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Part	Specif.	HEAT#	Chemical Composition [%]														Mechanical Properties											
			C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	W	Nb	Al	N	Ceq	Tensile	Yield	Elong	Redu	Hard	Ch.1	Ch.2	Ch.3	Ch. A	Temp.	HT
																			[ksi] [MPa]	[ksi] [MPa]	[%] [%]	[%] [%]	[HB] [HB]	[J] [J]	[J] [J]	[J] [J]	[J] [J]	[F] [C]
AC76 / 1																												
BODY	ASTM A216 WCB-2008	VA 2508	0.209	0.466	0.921	0.020	0.012	0.027	0.048	0.017	0.029	0.007		0.006	0.051	0.39	74.68 514.90	49.30 339.9	33.5	62	155							N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					71.05 489.87	44.95 309.9	34	60	156							N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.78 494.91	47.13 324.9	34.5	65	158							N
AC76 / 2																												
BODY	ASTM A216 WCB-2008	VA 2490	0.187	0.420	0.922	0.016	0.009	0.033	0.043	0.090	0.035	0.018		0.018	0.060	0.38	72.50 499.87	47.13 324.9	34.5	64	153							N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					71.05 489.87	44.95 309.9	34	60	156							N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.78 494.91	47.13 324.9	34.5	65	158							N
AC76 / 3																												
BODY	ASTM A216 WCB-2008	VA 2529	0.214	0.462	0.904	0.013	0.011	0.032	0.050	0.005	0.028	0.003		0.006	0.044	0.39	72.50 499.87	47.85 329.9	34.5	61	150							N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					71.05 489.87	44.95 309.9	34	60	156							N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.78 494.91	47.13 324.9	34.5	65	158							N
AC76 / 4																												
BODY	ASTM A216 WCB-2008	VA 2339	0.195	0.435	0.960	0.027	0.007	0.047	0.044	0.004	0.027	0.005		0.007	0.054	0.38	74.68 514.90	48.58 334.9	34.5	64	151							N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					71.05 489.87	44.95 309.9	34	60	156							N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.78 494.91	47.13 324.9	34.5	65	158							N

AC76 / 5

BODY	ASTM A216 WCB-2008	VA 2389	0.190	0.404	0.961	0.025	0.011	0.027	0.049	0.005	0.033	0.002		0.007	0.057	0.38	73.95	47.85	33.5	58	153		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					71.05	44.95	34	60	156		N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					489.87	309.9					N
																	494.91	324.9	34.5	65	158		N

AC76 / 6

BODY	ASTM A216 WCB-2008	VA 2477	0.207	0.463	0.951	0.012	0.011	0.023	0.044	0.005	0.030	0.002		0.007	0.046	0.39	75.40	50.03	33.5	61	156		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					519.86	344.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 7

BODY	ASTM A216 WCB-2008	VA 2519	0.209	0.445	0.915	0.018	0.012	0.058	0.051	0.009	0.030	0.006		0.007	0.042	0.39	71.78	44.95	36	64	153		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					494.91	309.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 8

BODY	ASTM A216 WCB-2008	VA 2529	0.214	0.462	0.904	0.013	0.011	0.032	0.050	0.005	0.028	0.003		0.006	0.044	0.39	72.50	47.85	34.5	61	150		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					489.87	329.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 9

BODY	ASTM A216 WCB-2008	VA 2508	0.209	0.466	0.921	0.020	0.012	0.027	0.048	0.017	0.029	0.007		0.006	0.051	0.39	74.68	49.30	33.5	62	155		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					514.90	339.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 10

BODY	ASTM A216 WCB-2008	VA 2519	0.209	0.445	0.915	0.018	0.012	0.058	0.051	0.009	0.030	0.006		0.007	0.042	0.39	71.78	44.95	36	64	153		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					494.91	309.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 11

BODY	ASTM A216 WCB-2008	VA 2371	0.210	0.466	0.952	0.027	0.013	0.030	0.053	0.006	0.030	0.002		0.007	0.055	0.40	76.13	52.93	33	63	149		N
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002					524.9	364.9					N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003					71.05	44.95	34	60	156		N
																	489.87	309.9					N
																	71.78	47.13	34.5	65	158		N
																	494.91	324.9					N

AC76 / 12

BODY	ASTM A216 WCB-2008	VA 2508	0.209	0.466	0.921	0.020	0.012	0.027	0.048	0.017	0.029	0.007		0.006	0.051	0.39	74.66	49.30	33.5	62	155		N
																	514.90	339.9					N

CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		489.87	309.9					N
														71.78	47.13	34.5	65	158		
														494.91	324.9					

ACT6 / 13

BODY	ASTM A216 WCB-2008	VA 2508	0.209	0.466	0.921	0.020	0.012	0.027	0.048	0.017	0.029	0.007		74.68	49.30	33.5	62	155		N
														514.90	339.9					
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
														489.87	309.9					
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		71.78	47.13	34.5	65	158		N
														494.91	324.9					

ACT6 / 14

BODY	ASTM A216 WCB-2008	VA 2477	0.207	0.463	0.951	0.012	0.011	0.023	0.044	0.005	0.030	0.002		75.40	50.03	33.5	61	156		N
														519.86	344.9					
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
														489.87	309.9					
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		71.78	47.13	34.5	65	158		N
														494.91	324.9					

ACT6 / 15

BODY	ASTM A216 WCB-2008	VA 2483	0.224	0.458	0.940	0.014	0.012	0.028	0.050	0.032	0.028	0.008		72.50	47.13	36	63	151		N
														499.87	324.9					
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
														489.87	309.9					
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		71.78	47.13	34.5	65	158		N
														494.91	324.9					

ACT6 / 16

BODY	ASTM A216 WCB-2008	VA 2480	0.187	0.420	0.922	0.016	0.009	0.033	0.043	0.090	0.035	0.018		72.50	47.13	34.5	64	153		N
														489.87	324.9					
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
														489.87	309.9					
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		71.78	47.13	34.5	65	158		N
														494.91	324.9					

ACT6 / 17

BODY	ASTM A216 WCB-2008	VA 2483	0.224	0.458	0.940	0.014	0.012	0.028	0.050	0.032	0.028	0.008		72.50	47.13	36	63	151		N
														499.87	324.9					
CLAPPER	ASTM A105-2005	. 20959	0.19	0.19	0.92	0.022	0.012	0.01	0.04	0.001	0.04	0.002		71.05	44.95	34	60	156		N
														489.87	309.9					
COVER	ASTM A105-2005	. 70375	0.19	0.24	0.92	0.024	0.008	0.04	0.09	0.001	0.03	0.003		71.78	47.13	34.5	65	158		N
														494.91	324.9					

Heat Treatment Codes:

A : Annealing	AC : Air Cooling	DA : Double-Aged	FT : Furnace Treatment	N : Normalizing	OD : Oil-Quenched
Ph-3 : Precipitation Hardening	SA : Solution Annealed	SQ : Solution Quenched	ST : Solution Treatment	T : Tempering	WC : Water Cooling
WQ : Water Quenched	WT : Water Quenched/Tempered			NT : Normalized/Tempered	

Part	Material
BODY	ASTM A216 WCB
BOLTING	ASTM A193 B7 / ASTM A194 2H
COVER	ASTM A105
DISC-WEDGE-CLAPPER	ASTM A105 +13%Cr Overlay
HINGE PIN	ASTM A276 410
SEAT RING	ASTM A105 + Sll 6 Faced

Valves Tested per API598

We hereby certify, that the material described above complies with the order requirements.

EC Declaration of Conformity: JEV (Jiangyin Eastern Valve Co. Ltd.), Jiangsu Province, 214423, P.R. China

According to Annex VII of Pressure Equipment Directive 97/23/EC, hereby declare that the products detailed above are in compliance with PED 97/23/EC and have been manufactured in accordance with conformity assessment module B+D as approved Det Norske Veritas Inspection AB as Identification No 0575 (formally 0409). The products may cover Category I, II and III of pressure equipment. For the most specific risks of this equipment, safety and compliance with essential requirements of the Directive has been based on API 600, API598, ASME B16.34, ASME B16.5, ASME B16.10 latest edition.

Undersigned by Liu Jian Qing, representing Jiangyin Eastern Valve company Ltd. :

刘建清

